

Title (en)

DATA COMMUNICATION USING POWER LINES

Title (de)

DATENÜBERTRAGUNG UNTER VERWENDUNG VON STROMLEITUNGEN

Title (fr)

TRANSMISSION DE DONNEES SUR DES LIGNES ELECTRIQUES DE DISTRIBUTION

Publication

EP 0931411 A4 20020502 (EN)

Application

EP 96932184 A 19960907

Priority

US 9614371 W 19960907

Abstract (en)

[origin: CA2264847A1] The apparatus uses electric power lines (100) to send and receive command, control, and data signal structures. Message signals are superimposed upon the AC power signals present on existing power lines (100). Transmit and receive sets (10 and 20) are equipped with a unique individual coding to complete the communication links. When a message signal is sent onto the line (100) the unique code of the sending unit (10) is placed at a predetermined position in the transmitted signal. Also the intended receiving unit code is placed in the message signal. An individual receiving network at a given location will be activated only when its unique code has been placed into a message on the line (100) sent by another unit. This coding ensures that only the intended location receiver will be able to trap the signal. The signals will be mid to high frequency and will be composed of low level logic/digital bits.

IPC 1-7

H04L 12/28; **H04B 3/54**

IPC 8 full level

H04B 3/54 (2006.01); **H04L 12/28** (2006.01); **H04M 11/04** (2006.01)

Citation (search report)

- [X] US 5452291 A 19950919 - EISENHANDLER SANFORD [US], et al
- [X] EP 0616451 A1 19940921 - EURO CP SARL [FR]
- [X] HARGADEN P J ET AL: "FUNCTIONS AND OPERATIONS OF CEBUS ROUTERS", IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE INC. NEW YORK, US, vol. 37, no. 2, 1 May 1991 (1991-05-01), pages 135 - 143, XP000234470, ISSN: 0098-3063
- See references of WO 9810579A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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